
Expert Python Programming Second Edition

Python in Practice

Python kinderleicht!

Python Programming Advanced

Beginning Programming with Python For Dummies

Python Programming

Let Us Python (Second Edition)

Advanced Python Programming

Clean Code in Python - Second Edition

Python Crashkurs

The Python Bible Volume 2

Learning Python

Advance Core Python Programming

Python Programming: The Ultimate Advanced Guide to Python Coding Language, Machine Learning, and Data Analysis, Become an Expert with Hand

Core Python Programming

Expert Python Programming, Second Edition

Python Programming Professional Made Easy

Advanced Python Programming

Programmieren von Kopf bis Fuß

Learn Python Programming - Third Edition

Mehr Hacking mit Python

Python von Kopf bis Fuß

Advanced Guide to Python 3 Programming

Python for Geeks

Python Microservices Development

Neuronale Netze selbst programmieren

Python kurz & gut
Expert Python Programming
Beginning Python
The Quick Python Book
Objektorientierte Analyse und Design von Kopf bis Fuß
Mastering Python
Datenanalyse mit Python
Expert Python Programming
Step By Step Database Programming using Python GUI & MySQL
Mit Python langweilige Jobs erledigen
Python Cookbook
Python: Journey from Novice to Expert
Entwurfsmuster
Python Programming Professional Made Easy

Expert Python Programming Second Edition

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KANE HURLEY

Python in Practice BPB Publications

Create distributed applications with clever design patterns to solve complex problems
Key Features
Set up and run distributed algorithms on a cluster using Dask and PySpark
Master skills to accurately implement concurrency in your code
Gain practical experience of Python design patterns with real-world examples
Book Description
This Learning Path shows you how to leverage the power of both native and third-party Python libraries for building robust and responsive applications. You will learn about profilers and reactive programming, concurrency and

parallelism, as well as tools for making your apps quick and efficient. You will discover how to write code for parallel architectures using TensorFlow and Theano, and use a cluster of computers for large-scale computations using technologies such as Dask and PySpark. With the knowledge of how Python design patterns work, you will be able to clone objects, secure interfaces, dynamically choose algorithms, and accomplish much more in high performance computing. By the end of this Learning Path, you will have the skills and confidence to build engaging models that quickly offer efficient solutions to your problems. This Learning Path includes content from the following Packt products:
Python High Performance - Second Edition by Gabriele Lanaro
Mastering Concurrency in Python by Quan Nguyen
Mastering Python Design Patterns by Sakis

KasampalisWhat you will learnUse NumPy and pandas to import and manipulate datasetsAchieve native performance with Cython and NumbaWrite asynchronous code using asyncio and RxPyDesign highly scalable programs with application scaffoldingExplore abstract methods to maintain data consistencyClone objects using the prototype patternUse the adapter pattern to make incompatible interfaces compatibleEmploy the strategy pattern to dynamically choose an algorithmWho this book is for This Learning Path is specially designed for Python developers who want to build high-performance applications and learn about single core and multi-core programming, distributed concurrency, and Python design patterns. Some experience with Python programming language will help you get the most out of this Learning Path.

Python kinderleicht! "O'Reilly Media, Inc."

This book provides a practical explanation of database programming using Python GUI & MySQL. The discussion in this book is presented in step by step so that it will help readers understand each material and also will make it easier for the readers to follow all of the instructions. This book is very suitable for students, programmers, and anyone who want to learn database programming using Python GUI & MySQL from scratch. This book is divided into two parts: The first part of this book will discuss about the fundamentals of database programming using Python GUI & MySQL. This part will discuss in detail about how to setup your working environment and how to understand GUI programming using Python. This part will also discuss in detail about how to start your database programming using Python GUI & MySQL. This part will discuss in detail about the basic of

database programming using Python GUI & MySQL. The second part of this book will discuss about how to build database application using Python GUI & MySQL. This part will discuss in detail about how to build Multiple Document Interface (MDI) database application through real project-based example. This part will discuss in detail about how to design and create database for Library Management System application, and how to create all forms for the application. The final objective of this book is that the readers are able to create real database application using Python GUI & MySQL. Here are the materials that you will learn in this book. PART I: THE FUNDAMENTAL OF DATABASE PROGRAMMING USING PYTHON GUI & MySQL CHAPTER 1: The discussion in this chapter will guide you in preparing what software are needed to start your database programming using Python GUI. This chapter will guide you to install all software including Python, MySQL, and Qt Designer. In addition, this chapter also will discuss about how to understand and use Qt Designer for user interface design, and how to create a GUI application using Python and Qt Designer. CHAPTER 2: The discussion in this chapter will guide you to start your database programming using Python GUI & MySQL. This chapter will discuss in detail about the basic of database programming using Python GUI & MySQL. The discussion in this chapter will talk about how to create and drop database, how to create and drop table, how to insert data into table, how to display data from table, how to update data in table, and how to delete data in table. All discussions in this chapter will give you deep understanding of database programming using Python GUI & MySQL. PART II: BUILDING DATABASE APPLICATION USING

PYTHON GUI & MySQL, CASE STUDY: LIBRARY MANAGEMENT SYSTEM APPLICATION CHAPTER 3: The discussion in this chapter will guide you to design and create database for library management system application. This is the first step that must be taken to create database application using Python GUI & MySQL. This chapter will discuss in detail about how to design the Entity Relationship Diagram (ERD) for library management system application. The discussion in this chapter will also talk about how to create database and its tables based on the ERD design using MySQL server. CHAPTER 4: The discussion in this chapter will guide you to create main form and login form for the application. This chapter will discuss in detail about how to create these two forms. These forms are the first two forms that we will create in building library management system application. This chapter will also discuss about how to run the application. CHAPTER 5: The discussion in this chapter will guide you to create user accounts form and members form for Library Management System application. This chapter will discuss in detail about how to create these two forms. This chapter will also discuss about how to add these two forms as MDI sub windows of the main form. And the final discussion of this chapter will guide you to use the forms to manage user accounts and members data of Library Management System application. CHAPTER 6: The discussion in this chapter will guide you to create authors form, genres form, and books form for Library Management System application. This chapter will discuss in detail about how to create these three forms. This chapter will also discuss about how to add books form as MDI sub window of the main form. And the final discussion of this chapter will guide you to use the forms to

manage authors, genres, and books data in Library Management System application. CHAPTER 7: The discussion in this chapter will guide you to create member search form, book search form, and loan transaction form for Library Management System application. This chapter will discuss in detail about how to create these three forms. This chapter will also discuss about how to add loan transaction form as MDI sub window of the main form. And the final discussion of this chapter will guide you to use the forms to manage loan transactions in Library Management System application. CHAPTER 8: The discussion in this chapter will guide you to create members statistic form, books statistic form, and loan statistic form for Library Management System application. This chapter will discuss in detail about how to create these three forms. This chapter will also discuss about how to add all of the forms as MDI sub windows of the main form. And the final discussion of this chapter will guide you to use all of the forms to display the statistics in the library.

Python Programming Advanced dpunkt.verlag

Tackle inefficiencies and errors the Pythonic way Key Features Enhance your coding skills using the new features introduced in Python 3.9 Implement the refactoring techniques and SOLID principles in Python Apply microservices to your legacy systems by implementing practical techniques Book Description Experienced professionals in every field face several instances of disorganization, poor readability, and testability due to unstructured code. With updated code and revised content aligned to the new features of Python 3.9, this second edition of Clean Code in Python will provide you with all the tools you need to overcome these obstacles and manage your projects

successfully. The book begins by describing the basic elements of writing clean code and how it plays a key role in Python programming. You will learn about writing efficient and readable code using the Python standard library and best practices for software design. The book discusses object-oriented programming in Python and shows you how to use objects with descriptors and generators. It will also show you the design principles of software testing and how to resolve problems by implementing software design patterns in your code. In the concluding chapter, we break down a monolithic application into a microservices-based one starting from the code as the basis for a solid platform. By the end of this clean code book, you will be proficient in applying industry-approved coding practices to design clean, sustainable, and readable real-world Python code.

What you will learn

- Set up a productive development environment by leveraging automatic tools
- Leverage the magic methods in Python to write better code, abstracting complexity away and encapsulating details
- Create advanced object-oriented designs using unique features of Python, such as descriptors
- Eliminate duplicated code by creating powerful abstractions using software engineering principles of object-oriented design
- Create Python-specific solutions using decorators and descriptors
- Refactor code effectively with the help of unit tests
- Build the foundations for solid architecture with a clean code base as its cornerstone

Who this book is for

This book is designed to benefit new as well as experienced programmers. It will appeal to team leads, software architects and senior software engineers who would like to write Pythonic code to save on costs and improve efficiency. The book assumes that you have a strong

understanding of programming

[Beginning Programming with Python For Dummies](#) Apress

Python ist eine leistungsfähige, moderne Programmiersprache. Sie ist einfach zu erlernen und macht Spaß in der Anwendung – mit diesem Buch umso mehr! "Python kinderleicht" macht die Sprache lebendig und zeigt Dir (und Deinen Eltern) die Welt der Programmierung. Jason R. Briggs führt Dich Schritt für Schritt durch die Grundlagen von Python. Du experimentierst mit einzigartigen (und oft urkomischen) Beispielprogrammen, bei denen es um gefräßige Monster, Geheimagenten oder diebische Raben geht. Neue Begriffe werden erklärt, der Programmcode ist farbig dargestellt, strukturiert und mit Erklärungen versehen. Witzige Abbildungen erhöhen den Lernspaß. Jedes Kapitel endet mit Programmier-Rätseln, an denen Du das Gelernte üben und Dein Verständnis vertiefen kannst. Am Ende des Buches wirst Du zwei komplette Spiele programmiert haben: einen Klon des berühmten "Pong" und "Herr Strichmann rennt zum Ausgang" – ein Plattformspiel mit Sprüngen, Animation und vielem mehr. Indem Du Seite für Seite neue Programmierabenteuer bestehst, wirst Du immer mehr zum erfahrenen Python-Programmierer.

- Du lernst grundlegende Datenstrukturen wie Listen, Tupel und Maps kennen.
- Du erfährst, wie man mit Funktionen und Modulen den Programmcode organisieren und wiederverwenden kann.
- Du wirst mit Kontrollstrukturen wie Schleifen und bedingten Anweisungen vertraut und lernst, mit Objekten und Methoden umzugehen.
- Du zeichnest Formen mit dem Python-Modul Turtle und erstellst Spiele, Animationen und andere grafische Wunder mit tkinter.

Und: "Python kinderleicht" macht auch für Erwachsene das Programmierenlernen zum Kinderspiel! Alle

Programme findest Du auch zum Herunterladen auf der Website!

Python Programming TURIDA Publisher

Portable, powerful, and a breeze to use, Python is the popular open source object-oriented programming language used for both standalone programs and scripting applications. It is now being used by an increasing number of major organizations, including NASA and Google. Updated for Python 2.4, *The Python Cookbook, 2nd Edition* offers a wealth of useful code for all Python programmers, not just advanced practitioners. Like its predecessor, the new edition provides solutions to problems that Python programmers face everyday. It now includes over 200 recipes that range from simple tasks, such as working with dictionaries and list comprehensions, to complex tasks, such as monitoring a network and building a templating system. This revised version also includes new chapters on topics such as time, money, and metaprogramming. Here's a list of additional topics covered: Manipulating text Searching and sorting Working with files and the filesystem Object-oriented programming Dealing with threads and processes System administration Interacting with databases Creating user interfaces Network and web programming Processing XML Distributed programming Debugging and testing Another advantage of *The Python Cookbook, 2nd Edition* is its trio of authors--three well-known Python programming experts, who are highly visible on email lists and in newsgroups, and speak often at Python conferences. With scores of practical examples and pertinent background information, *The Python Cookbook, 2nd Edition* is the one source you need if you're looking to build efficient, flexible, scalable, and well-integrated systems.

Let Us Python (Second Edition) Nelly B.L. International Consulting Limited

Neuronale Netze sind Schlüsselemente des Deep Learning und der Künstlichen Intelligenz, die heute zu Erstaunlichem in der Lage sind. Sie sind Grundlage vieler Anwendungen im Alltag wie beispielsweise Spracherkennung, Gesichtserkennung auf Fotos oder die Umwandlung von Sprache in Text. Dennoch verstehen nur wenige, wie neuronale Netze tatsächlich funktionieren. Dieses Buch nimmt Sie mit auf eine unterhaltsame Reise, die mit ganz einfachen Ideen beginnt und Ihnen Schritt für Schritt zeigt, wie neuronale Netze arbeiten: - Zunächst lernen Sie die mathematischen Konzepte kennen, die den neuronalen Netzen zugrunde liegen. Dafür brauchen Sie keine tieferen Mathematikkenntnisse, denn alle mathematischen Ideen werden behutsam und mit vielen Illustrationen und Beispielen erläutert. Eine Kurzeinführung in die Analysis unterstützt Sie dabei. - Dann geht es in die Praxis: Nach einer Einführung in die populäre und leicht zu lernende Programmiersprache Python bauen Sie allmählich Ihr eigenes neuronales Netz mit Python auf. Sie bringen ihm bei, handgeschriebene Zahlen zu erkennen, bis es eine Performance wie ein professionell entwickeltes Netz erreicht. - Im nächsten Schritt tunen Sie die Leistung Ihres neuronalen Netzes so weit, dass es eine Zahlenerkennung von 98 % erreicht - nur mit einfachen Ideen und simplem Code. Sie testen das Netz mit Ihrer eigenen Handschrift und werfen noch einen Blick in das mysteriöse Innere eines neuronalen Netzes. - Zum Schluss lassen Sie das neuronale Netz auf einem Raspberry Pi Zero laufen. Tariq Rashid erklärt diese schwierige Materie außergewöhnlich klar und verständlich, dadurch werden neuronale Netze für jeden

Interessierten zugänglich und praktisch nachvollziehbar.

Advanced Python Programming Packt Publishing Ltd

Die objektorientierte Sprache Python eignet sich hervorragend zum Schreiben von Skripten, Programmen und Prototypen. Sie ist frei verfügbar, leicht zu lernen und zwischen allen wichtigen Plattformen portabel, einschließlich Linux, Unix, Windows und Mac OS. Damit Sie im Programmieralltag immer den Überblick behalten, sind die verschiedenen Sprachmerkmale und Elemente in Python – kurz & gut übersichtlich zusammengestellt. Für Auflage 5 wurde die Referenz komplett überarbeitet, erweitert und auf den neuesten Stand gebracht, so dass sie die beiden aktuellen Versionen 2.7 und 3.4 berücksichtigt. Python – kurz & gut behandelt unter anderem: Eingebaute Typen wie Zahlen, Listen, Dictionarys u.v.a.; Anweisungen und Syntax für Entwicklung und Ausführung von Objekten; Die objektorientierten Entwicklungstools in Python; Eingebaute Funktionen, Ausnahmen und Attribute; Spezielle Methoden zur Operatorenüberladung; Weithin benutzte Standardbibliotheksmodule und Erweiterungen; Kommandozeilenoptionen und Entwicklungswerkzeuge. Mark Lutz stieg 1992 in die Python-Szene ein und ist seitdem als aktiver Pythonista bekannt. Er gibt Kurse, hat zahlreiche Bücher geschrieben und mehrere Python-Systeme programmiert. *Clean Code in Python - Second Edition* Packt Publishing Ltd Haben Sie sich auch schon gefragt, ob es möglich ist, mithilfe eines Buchs das Programmieren zu lernen? Nun - mit dem richtigen Buch geht das schon! Programmieren von Kopf bis Fuß ist auch für all jene geeignet, die noch keinerlei Programmiererfahrung mitbringen, und vermittelt auf kluge und spielerische Art die grundlegenden Ideen bei der Entwicklung

eigener Programme. Die vorgestellten Konzepte wie Variablen, Schleifen oder Anweisungen sind erst einmal allen Programmiersprachen gemeinsam, für die konkreten Beispiele und Übungen wird dann Python verwendet, weil sich anhand dieser dynamischen.

Python Crashkurs dpunkt.verlag

Advanced Guide to Python 3 Programming 2nd Edition delves deeply into a host of subjects that you need to understand if you are to develop sophisticated real-world programs. Each topic is preceded by an introduction followed by more advanced topics, along with numerous examples, that take you to an advanced level. This second edition has been significantly updated with two new sections on advanced Python language concepts and data analytics and machine learning. The GUI chapters have been rewritten to use the Tkinter UI library and a chapter on performance monitoring and profiling has been added. In total there are 18 new chapters, and all remaining chapters have been updated for the latest version of Python as well as for any of the libraries they use. There are eleven sections within the book covering Python Language Concepts, Computer Graphics (including GUIs), Games, Testing, File Input and Output, Databases Access, Logging, Concurrency and Parallelism, Reactive Programming, Networking and Data Analytics. Each section is self-contained and can either be read on its own or as part of the book as a whole. It is aimed at those who have learnt the basics of the Python 3 language but wish to delve deeper into Python's ecosystem of additional libraries and modules.

The Python Bible Volume 2 Packt Publishing Ltd

Become an ace Python programmer by learning best coding

practices and advance-level concepts with Python 3.5

About This Book- Based on the latest stable version of Python (version 3.5)- Creating well manageable code that will run in various environments with different sets of dependencies- Packed with advanced concepts and best practices to write efficient Python code

Who This Book Is For The book would appeal to web developers and Python programmers who want to start using version 3.5 and write code efficiently. Basic knowledge of Python programming is expected.

What You Will Learn- Conventions and best practices that are widely adopted in the python community- Package python code effectively for community and production use- Easy and lightweight ways to automate code deployment on remote systems- Improve your code's quality, reliability, and performance- Write concurrent code in python- Extend python with code written in different languages

In Detail Python is a dynamic programming language, used in a wide range of domains by programmers who find it simple, yet powerful. Even if you find writing Python code easy, writing code that is efficient and easy to maintain and reuse is a challenge. The focus of the book is to familiarize you with common conventions, best practices, useful tools and standards used by python professionals on a daily basis when working with code. You will begin with knowing new features in Python 3.5 and quick tricks for improving productivity. Next, you will learn advanced and useful python syntax elements brought to this new version. Using advanced object-oriented concepts and mechanisms available in python, you will learn different approaches to implement metaprogramming. You will learn to choose good names, write packages, and create standalone executables easily. You will also

be using some powerful tools such as buildout and virtualenv to release and deploy the code on remote servers for production use. Moving on, you will learn to effectively create Python extensions with C, C++, cython, and pyrex. The important factors while writing code such as code management tools, writing clear documentation, and test-driven development are also covered. You will now dive deeper to make your code efficient with general rules of optimization, strategies for finding bottlenecks, and selected tools for application optimization. By the end of the book, you will be an expert in writing efficient and maintainable code.

Style and approach An easy-to-follow guide that covers industry followed best practices in Python programming

Learning Python Packt Publishing Ltd

Take your Python skills to the next level to develop scalable, real-world applications for local as well as cloud deployment

Key Features All code examples have been tested with Python 3.7 and Python 3.8 and are expected to work with any future 3.x release

Learn how to build modular and object-oriented applications in Python Discover how to use advanced Python techniques for the cloud and clusters

Book Description Python is a multipurpose language that can be used for multiple use cases. Python for Geeks will teach you how to advance in your career with the help of expert tips and tricks. You'll start by exploring the different ways of using Python optimally, both from the design and implementation point of view. Next, you'll understand the life cycle of a large-scale Python project. As you advance, you'll focus on different ways of creating an elegant design by modularizing a Python project and learn best practices and

design patterns for using Python. You'll also discover how to scale out Python beyond a single thread and how to implement multiprocessing and multithreading in Python. In addition to this, you'll understand how you can not only use Python to deploy on a single machine but also use clusters in private as well as in public cloud computing environments. You'll then explore data processing techniques, focus on reusable, scalable data pipelines, and learn how to use these advanced techniques for network automation, serverless functions, and machine learning. Finally, you'll focus on strategizing web development design using the techniques and best practices covered in the book. By the end of this Python book, you'll be able to do some serious Python programming for large-scale complex projects. What you will learn

Understand how to design and manage complex Python projects

Strategize test-driven development (TDD) in Python

Explore multithreading and multiprocessing in Python

Use Python for data processing with Apache Spark and Google Cloud Platform (GCP)

Deploy serverless programs on public clouds such as GCP

Use Python to build web applications and application programming interfaces

Apply Python for network automation and serverless functions

Get to grips with Python for data analysis and machine learning

Who this book is for

This book is for intermediate-level Python developers in any field who are looking to build their skills to develop and manage large-scale complex projects. Developers who want to create reusable modules and Python libraries and cloud developers building applications for cloud deployment will also find this book useful. Prior experience with Python will help you get the most out of this book.

Advance Core Python Programming Pearson Deutschland GmbH

Take Your Python Skills To The Next Level! Python's popularity is growing tremendously and it's becoming more and more relevant economically and technologically. It definitely makes sense to master the leading programming language for machine learning, artificial intelligence and data science. If you already know the basics and want to take your Python skills to the next level, this book is perfect for you! In this second volume of *The Python Bible* you will learn advanced Python programming concepts. You will learn about computer networking, database programming, multithreading and much more. Additionally, this series is highly structured, so that you can continue your journey with the next volumes into specialized fields like machine learning or finance. After Reading This Book You Will Have The Following Skills:

Understanding and applying advanced programming concepts

Object-oriented programming

Network programming

Penetration testing with Python

Regular expressions

Multithreading

XML Processing

Database Programming

Logging

Solid basis for advanced programming topics (Machine Learning, Data Science, Finance...)

Take The Next Step to Python Mastery With *The Python Bible!*

[Python Programming: The Ultimate Advanced Guide to Python Coding Language, Machine Learning, and Data Analysis, Become an Expert with Hand](#) Packt Publishing Ltd

"Python Crashkurs" ist eine kompakte und gründliche Einführung, die es Ihnen nach kurzer Zeit ermöglicht, Python-Programme zu schreiben, die für Sie Probleme lösen oder Ihnen erlauben, Aufgaben mit dem Computer zu erledigen. In der ersten Hälfte des Buches werden Sie mit grundlegenden

Programmierkonzepten wie Listen, Wörterbücher, Klassen und Schleifen vertraut gemacht. Sie erlernen das Schreiben von sauberem und lesbarem Code mit Übungen zu jedem Thema. Sie erfahren auch, wie Sie Ihre Programme interaktiv machen und Ihren Code testen, bevor Sie ihn einem Projekt hinzufügen. Danach werden Sie Ihr neues Wissen in drei komplexen Projekten in die Praxis umsetzen: ein durch "Space Invaders" inspiriertes Arcade-Spiel, eine Datenvisualisierung mit Pythons superpraktischen Bibliotheken und eine einfache Web-App, die Sie online bereitstellen können. Während der Arbeit mit dem "Python Crashkurs" lernen Sie, wie Sie: - leistungsstarke Python-Bibliotheken und Tools richtig einsetzen – einschließlich matplotlib, NumPy und Pygal - 2D-Spiele programmieren, die auf Tastendrücke und Mausklicks reagieren, und die schwieriger werden, je weiter das Spiel fortschreitet - mit Daten arbeiten, um interaktive Visualisierungen zu generieren - Web-Apps erstellen und anpassen können, um diese sicher online zu deployen - mit Fehlern umgehen, die häufig beim Programmieren auftreten Dieses Buch wird Ihnen effektiv helfen, Python zu erlernen und eigene Programme damit zu entwickeln. Warum länger warten? Fangen Sie an!

Core Python Programming O'Reilly Germany

Write fast, robust, and highly reusable applications using Python's internal optimization, state-of-the-art performance-benchmarking tools, and cutting-edge libraries Key Features Benchmark, profile, and accelerate Python programs using optimization tools Scale applications to multiple processors with concurrent programming Make applications robust and reusable using effective design patterns Book Description Python's powerful

capabilities for implementing robust and efficient programs make it one of the most sought-after programming languages. In this book, you'll explore the tools that allow you to improve performance and take your Python programs to the next level. This book starts by examining the built-in as well as external libraries that streamline tasks in the development cycle, such as benchmarking, profiling, and optimizing. You'll then get to grips with using specialized tools such as dedicated libraries and compilers to increase your performance at number-crunching tasks, including training machine learning models. The book covers concurrency, a major solution to making programs more efficient and scalable, and various concurrent programming techniques such as multithreading, multiprocessing, and asynchronous programming. You'll also understand the common problems that cause undesirable behavior in concurrent programs. Finally, you'll work with a wide range of design patterns, including creational, structural, and behavioral patterns that enable you to tackle complex design and architecture challenges, making your programs more robust and maintainable. By the end of the book, you'll be exposed to a wide range of advanced functionalities in Python and be equipped with the practical knowledge needed to apply them to your use cases. What you will learn Write efficient numerical code with NumPy, pandas, and Xarray Use Cython and Numba to achieve native performance Find bottlenecks in your Python code using profilers Optimize your machine learning models with JAX Implement multithreaded, multiprocessing, and asynchronous programs Solve common problems in concurrent programming, such as deadlocks Tackle architecture challenges with design

patternsWho this book is for This book is for intermediate to experienced Python programmers who are looking to scale up their applications in a systematic and robust manner.

Programmers from a range of backgrounds will find this book useful, including software engineers, scientific programmers, and software architects.

Expert Python Programming, Second Edition Packt Publishing Ltd

Do you wish to develop further your journey to becoming an expert Python programmer and achieve your goals? Are you looking to refine your Python programming skills and build professional grade applications? If so then your search ends here! Learning new skills is a process made from two big components: the first one is just your own will to learn and the second one is a good source of information, and lucky for you, you've come to the right place! Python is a dynamic programming language that, due to its simple but efficient nature, is used in a wide range of domains. While writing Python code is easy, it is challenging to make it readable, reusable and easy to maintain. This third edition on Expert Python Programming will help you overcome this challenge, complete with best practices, necessary and useful tools and standards applied by experienced Python developers. In addition to learning how to implement principles from different programming paradigms, including object-oriented programming, functional programming and event-driven programming, you can learn the specialized components of Python syntax. By the end of the book, you will have become an expert in writing efficient and maintainable Python code. What you will learn getting up to speed with automated ways of deploying your software on remote servers. create useful Python

extensions with C, C++, Cython, and CFFI. studying about code management tools, writing clear documentation, and exploring test driven development which will help you write clean code. Explore modern ways of setting up repeatable and consistent development environments Package Python code effectively for community and production use Learn modern syntax elements of Python programming such as f-strings, enums, and lambda functions Write concurrent code in Python Extend and integrate Python with code written in different languages And so much more There are countless books on the market on this topic promising better understanding of the subject and immeasurable success but this carefully sought out guide will teach you the advanced concepts you most definitely need so you can be on your way to becoming a master of the Python programming language. Becoming a Python expert takes time, but over time you'll master this beautiful programming language. It's worth it! Now then, what are you waiting for? Scroll up and click on the 'Buy Now' button and unleash the python programmer in you, today!

Python Programming Professional Made Easy O'Reilly
Create simple, easy programs in the popular Python language
Beginning Programming with Python For Dummies is the trusted way to learn the foundations of programming using the Python programming language. Python is one of the top-ranked languages, and there's no better way to get started in computer programming than this friendly guide. You'll learn the basics of coding and the process of creating simple, fun programs right away. This updated edition features new chapters, including coverage of Google Colab, plus expanded information on

functions and objects, and new examples and graphics that are relevant to today's beginning coders. Dummies helps you discover the wealth of things you can achieve with Python. Employ an online coding environment to avoid installation woes and code anywhere, any time Learn the basics of programming using the popular Python language Create easy, fun projects to show off your new coding chops Fix errors in your code and use Python with external data sets Beginning Programming with Python For Dummies will get new programmers started—the easy way.

Advanced Python Programming CreateSpace

If you want to master Python programming and impress your friends with the programs you can make from scratch, then Keep Reading... The truth is...Choose to hire another programmer to do the work, is costly, and if anything ever goes wrong with the program, you still have to pay them. You may even have a great idea for your website or make your app, or even a game, but with the costs being so high, it seems pointless and you give up before trying. Sounds familiar? The solution is a step-by-step guide with practical projects and examples that will allow you to finally master the easiest programming language. Python has all of the power that you need to finally take on that machine learning or data analysis project that you always wanted to handle, without all of those complicated parts that come with other coding languages. And that's what you'll learn in Python Programming. Inside this guidebook, we are going to spend some time taking a look at the basics that we need on the Python language, before moving into topics like machine learning and data analysis. You will learn: What the Python Language is all

About and Why Programmers around the World Choose It 7 Main Benefits of Working with Python How to Install Python on your Operating System The Importance of Data Types and Variables Basic of Python Language Including Inheritances, Loops, Classes, and Raising Exceptions Machine Learning and How It Fits in with the Python Language The Benefits of Using Python for Data Analysis 7 Libraries that Work Well with Completing your own Data Analysis in no Time at all Most of the books on the market only take a brief look into Python, showing some of the topics but never going deep and showing you how to work on the code. Python Programming is full of step-by-step exercises that will help you become a Python expert. There is so much that we can do when it comes to using the Python language, especially when we are looking at combining it with machine learning and data analysis. Would You Like To Know More? Get this book now to Master the Python Coding Language!

Programmieren von Kopf bis Fuß dpunkt.verlag

Become an ace Python programmer by learning best coding practices and advance-level concepts with Python 3.5 About This Book Based on the latest stable version of Python (version 3.5) Creating well manageable code that will run in various environments with different sets of dependencies Packed with advanced concepts and best practices to write efficient Python code Who This Book Is For The book would appeal to web developers and Python programmers who want to start using version 3.5 and write code efficiently. Basic knowledge of Python programming is expected. What You Will Learn Conventions and best practices that are widely adopted in the python community Package python code effectively for community and production

use Easy and lightweight ways to automate code deployment on remote systems Improve your code's quality, reliability, and performance Write concurrent code in python Extend python with code written in different languages In Detail Python is a dynamic programming language, used in a wide range of domains by programmers who find it simple, yet powerful. Even if you find writing Python code easy, writing code that is efficient and easy to maintain and reuse is a challenge. The focus of the book is to familiarize you with common conventions, best practices, useful tools and standards used by python professionals on a daily basis when working with code. You will begin with knowing new features in Python 3.5 and quick tricks for improving productivity. Next, you will learn advanced and useful python syntax elements brought to this new version. Using advanced object-oriented concepts and mechanisms available in python, you will learn different approaches to implement metaprogramming. You will learn to choose good names, write packages, and create standalone executables easily. You will also be using some powerful tools such as buildout and virtualenv to release and deploy the code on remote servers for production use. Moving on, you will learn to effectively create Python extensions with C, C++, cython, and pyrex. The important factors while writing code such as code management tools, writing clear documentation, and test-driven development are also covered. You will now dive deeper to make your code efficient with general rules of optimization, strategies for finding bottlenecks, and selected tools for application optimization. By the end of the book, you will be an expert in writing efficient and maintainable code. Style and approach An easy-to-follow guide that covers industry followed

best practices in Python programming

Learn Python Programming - Third Edition BPB Publications

Sie wollen alles erfahren über das Manipulieren, Bereinigen, Verarbeiten und Aufbereiten von strukturierten Daten mit Python? Dieses konsequent praxisbezogene Buch zeigt Ihnen anhand konkreter Fallbeispiele, wie Sie mit Jupyter und den Python-Bibliotheken Pandas, NumPy und IPython eine Vielzahl von typischen Datenanalyse-Problemen lösen. Geschrieben von Wes McKinney, dem Hauptautor der Pandas-Bibliothek, bietet Datenanalyse mit Python zudem einen praktischen Einstieg in das Scientific Computing für datenintensive Anwendungen mit Python. Das Buch eignet sich sowohl für Datenanalysten, für die Python Neuland ist, als auch für Python-Programmierer, die sich in das Scientific Computing einarbeiten wollen.

Mehr Hacking mit Python O'Reilly

Gain a fundamental understanding of Python's syntax and features with this up-to-date introduction and practical reference. Covering a wide array of Python-related programming topics, including addressing language internals, database integration, network programming, and web services, you'll be guided by sound development principles. Ten accompanying projects will ensure you can get your hands dirty in no time. Updated to reflect the latest in Python programming paradigms and several of the most crucial features found in Python 3, *Beginning Python* also covers advanced topics such as extending Python and packaging/distributing Python applications. What You'll Learn Become a proficient Python programmer by following along with a friendly, practical guide to the language's key features Write code faster by learning how to take advantage of

advanced features such as magic methods, exceptions, and abstraction Gain insight into modern Python programming paradigms including testing, documentation, packaging, and distribution Learn by following along with ten interesting projects,

including a P2P file-sharing application, chat client, video game, remote text editor, and more Who This Book Is For Programmers, novice and otherwise, seeking a comprehensive introduction to the Python programming language.

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